



HTM1800 AC Drilling Motor

Joliet Electric Motors...
the quality source for
Drilling Motors.
For more than 75 years
our motors have delivered
Quality, Value and Reliability...
Day-in—Day-out.



The Joliet Horizontal AC Drilling Motor delivers a continuous 1800 HP rating for mud pump and rotary table applications and boasts an impressive intermittent rating of 2700 HP for drawworks duty. The continuous rating is at 600 VAC, 1571 Amperes, 45.6 Hertz, 900/1800 RPM.

Joliet's HTM1800 has proven reliability throughout the drilling & marine industries and continues to meet & exceed all expectations. The **Joliet HTM1800** provides competitive pricing and unsurpassed quality.



P.O. Box 114
Joliet, Illinois 60434 USA

(800) 435-9350 (713) 467-7559
Fax: (713) 467-7887
www.jolietelectricmotors.com • tractionmotors.com

Features & Specifications

- **Form Wound 6-Pole Stator.**
- Class H Insulation.
- **Copper Alloy Rotor Bars and End Rings.**
- Inverter Duty.
- **4532 Alloy High Strength Forged Shaft for Radial Load.**
- OPE Insulated Bearing.
- Pressurized connection box (IP56) mounted on left side of motor as viewed from non-drive end, with bolt on cable connections and terminations for pressure sensor, thermostat, space heater, lock-out switch & blower unit. Connection box can be specified on right side.
- Blower Assembly; 25hp Explosion Proof, 3 Phase, 60 Hz, 460 Volts.
- Pressure sensor, Explosion Proof.
- Lockout Switch, Explosion Proof.
- Space Heater, 120/240 Volt, Explosion Proof.
- (6) Winding RTD's (100 Ohm).
- Stub Shaft / Encoder Mount optional.
- Motor Enclosure: IP44.
- Altitude Below 3,300 FT.
- Approx. Weight: 8,400 Lbs. 3,810 Kg.

ENGINEERING DATA

- Motor Performance Curve –see above
- Service Speed: Belt drive: 0~2300 RPM (min⁻¹).
(2300~3000 RPM: short time drive)
(Optional: 0~3000 RPM (Direct coupling drive. Continuous drive).
- Over speed: 3600 min⁻¹
- Dielectric Test Vibration: 4025 V (900*2.25+2000, 900 V is inverter input Voltage).
- Permissible Vibration: +/-73.5m/S² (+/-7.5G).
- Noise (@ No-Load): Approx. 91 dB(A) at 1m from motor frame
- Bearing Type: Gear Side: Roller Bearing;
Opp. Gear side: Roller Bearing

Rating:	Continuous	Intermittent
Output (HP)	1800	2700
Output (KW)	1342	2013
Voltage (V)	600	600
Current (A)	1571	2450
Speed (min-1)	900	900
Frequency (HZ)	45.6	40.6
Efficiency (%)	95.0	94.3
Power Factor (%)	86.8	82
Slip (%)	1.12	1.43



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